

THERMOCOUPLE Ci series
with interchangeable measure element



- **All standard applications up to 600 °C**
High temperature option 1100°C
- **Class 1 accuracy**
- **Interchangeable measure element**
- **Modular assembly according application**
Many possibility fastening
- **Application domain**
Industrial process
Tank and piping
Machinery and equipment



- **Models available in ATEX and IECex version**
Intrinsic safety Gaz and Dust.



Ci thermocouple are intended to measure industrial temperature, equipped of welded sheath, they are intended for use on tank and piping. Direct output or loop powered.

TECHNICAL SPECIFICATION: (standard execution)

- **Connecting head:** Light alloy DAN type with screw (ip65) or clip (ip54).
Hinge mounting cap, M20x1.5 cable gland output.
Other head on request
- **Fastening:** 1/2" G cyl. stainless steel connector welded on sheath
sliding connector in option (**RC**)
smooth pipe option (**R0**) fixed on the flange
other connection on request
- **Protection sheath:** 316 L stainless steel, Ø 9 mm, 1 mm wall thickness
316 L stainless steel, Ø 11 mm, wall thickness = 2 mm
reduced extremity option
- **Measure element:** Interchangeable during operation
Welded Ø 1,5 mm J thermocouple , or Ø 1,62 mm K thermocouple
with ceramic bead
(mineral insulated couple is also possible)
- **Options :** in head embeded transmitter (loop powered)
other pipe Ø, other head type
other materials (inconel)

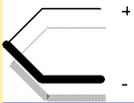
**Fastening
Accessory**

Sliding
connection



JPC type
sliding flange





SCREW STAINLESS STEEL THERMOCOUPLES

Ci series with interchangeable measure element



Technical specification (standard version)

- Maximum temperature use: + 600 °C, (+ 1100 °C HT version)
 Response time (mean value given for information only):
 fonction of sheath type.

in water at 0,2 m/s : $t_{0,5} = 6 \text{ s}$ $t_{0,9} = 14 \text{ s}$
 in air at 1 m/s : $t_{0,5} = 45 \text{ s}$ $t_{0,9} = 2 \text{ min.}$

- dielectric strength: 500 Vdc ; insulation >200 Mohms
 - maximum operating pressure: 50 bar (ambient temperature)

Interchangeable element outputs:

Transmitter
output
(ELC)



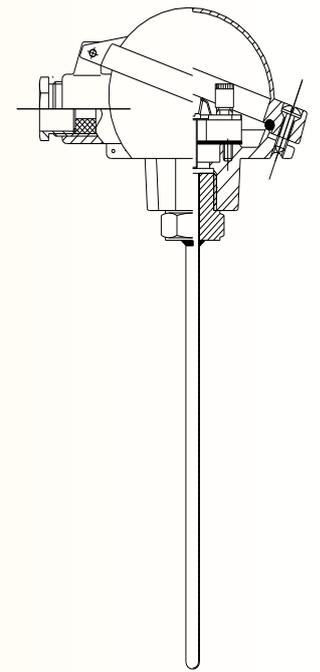
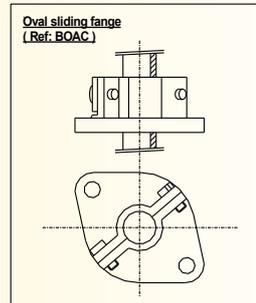
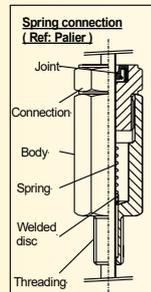
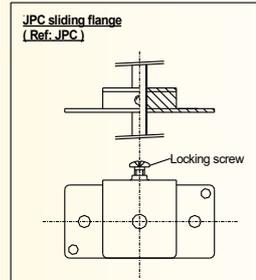
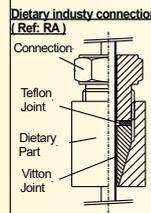
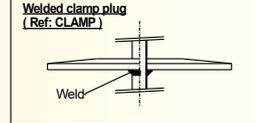
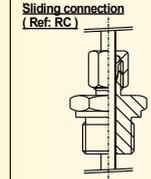
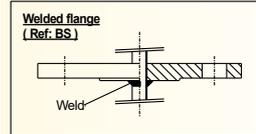
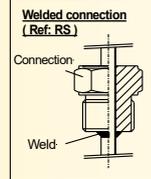
Terminals
output
(ELB)



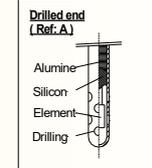
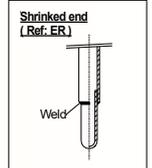
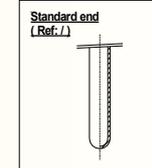
Wires
output
(ELF)



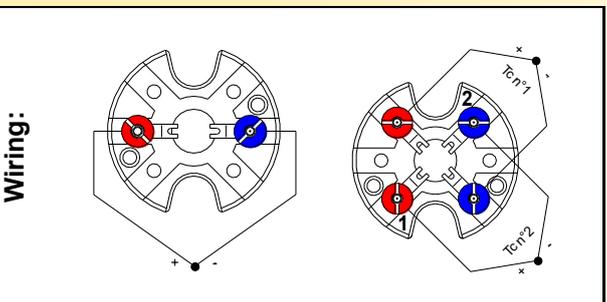
Fastening:



End



Any other dimensions and diameter on request.



Order code													
C	K	D	160	i	Ti 100	ER	DAN	v	-	RCi	/	ELB	9
Couple	type	Single (by default) or Duplex couple	Utile length (mm)	Stainless steel	extension length (Intermediate pipe) (mm) optional	if reduced extremity	head type			Connection type		interchangeable element type	external sheath diameter
J	K	S					DANv			RS: welded connection (by default)		ELB: output on screw-terminal	9mm (by default) optional
T	''''						DANc			R0: no connection		ELF: output on wires	
							Cast iron			RCi: stainless steel sliding connection		ELC: output on embedded converter	
							PVC			RCa: steel sliding connection		Type to be specified	
							MA			BS : welded flange		CAL40; CNL40;	
							Stainless steel			RT: turning connection			
							ADF						